

PMP22334 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB1	1		PMP22334	Any	Printed Circuit Board	
C1, C4	2	4.7uF	GRM31CR71H475KA12L	MuRata	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 1206	1206
C2, C3	2	0.047uF	CGA2B3X7R1H473K050BB	TDK	CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C5, C15, C17, C18, C20, C33, C34, C35	8	0.1uF	CGA2B3X7R1H104K050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C6	1	22pF	C1005C0G1H220J050BA	TDK	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C7, C8, C9, C10, C11, C19, C21, C31, C32	9	22uF	GCM31CR71A226KE02	MuRata	CAP, CERM, 22 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C12, C13, C27	3	1uF	GRM155R6YA105ME11D	MuRata	CAP, CERM, 1 uF, 35 V, +/- 20%, X5R, 0402	0402
C14, C16	2	10uF	C2012X7R1A106K125AC	TDK	CAP, CERM, 10 uF, 10 V, +/- 10%, X7R, 0805	0805
C22	1	0.1uF	0603YC104K4T4A	AVX	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C23, C28, C30	3	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	0402
C24, C25	2	2.2uF	C1005X5R1E225K050BC	TDK	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X5R, 0402	0402
C26	1	10uF	C3216X7R1A106M160AC	TDK	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 1206	1206
C29	1	10uF	UMJ325KB7106KMHT	Taiyo Yuden	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C36, C37, C40	3	10uF	50SVPF10M	Panasonic	CAP, Aluminum Polymer, 10 uF, 50 V, +/- 20%, 0.04 ohm, F61 SMD	F61
C38, C39, C42	3	1uF	C0805C105K5RACTU	Kemet	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J1, J2, J3, J4, J5	5		1729018	Phoenix Contact	TERM BLOCK 2POS 5mm, TH	10x10x8.1 mm
J6, J7, J8	3		U.FL-R-SMT-1(01)	Hirose Electric Co. Ltd.	Receptacle, Ultra Miniature Coaxial, Male Pin, 50 ohm, SMT	Ultra small CO-AX SMD
J9	1		HTSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	Header, 100mil, 2x1, TH
J10	1		PBC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Gold, TH	PBC03SAAN
L1	1	8.2uH	VCHA075D-8R2MS6	Cyntec	Power Choke Coil	SMD
L2	1	80 ohm	HI0805R800R-10	Laird-Signal Integrity Products	Ferrite Bead, 80 ohm @ 100 MHz, 5 A, 0805	0805
L3, L4	2	470nH	VCTA25201B-R47MS6	Cyntec	Inductor, 470 nH, 4 A, 0.026 ohm, SMD	2.5x2mm
L5	1	1uH	VCMT104T-1R0MN5	Cyntec	1uH Unshielded Inductor 11A 15mOhm Max Nonstandard	SMD_10MM85_10MM0
L6	1	0.8uH	PLT10HH450180PNL	MuRata	Coupled inductor, 0.8uH, 45 ohm @10 MHz, 18A, 0.0018 ohm, SMD	12.9x6.6mm
L7	1	110 ohm	74279221111	Würth Elektronik	Ferrite Bead, 110 ohm @ 100 MHz, 5.4 A, 1206	1206
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
R1	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R2, R3, R16, R22, R33, R34	6	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R4	1	33k	CRCW040233K0JNED	Vishay-Dale	RES, 33 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R5, R8, R10, R11, R12, R13, R14, R15, R17, R18, R23, R24	12	10.0k	RMCF0402FT10K0	Stackpole Electronics Inc	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R6	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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R7	1	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	0402
R9	1	24.9k	CRCW040224K9FKED	Vishay-Dale	RES, 24.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R20	1	34.8k	CRCW040234K8FKED	Vishay-Dale	RES, 34.8 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R21	1	15.4k	CRCW040215K4FKED	Vishay-Dale	RES, 15.4 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R25, R26, R27	3	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R29	1	0	CRCW20100000Z0EF	Vishay-Dale	RES, 0, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R30, R31	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R35	1	10.0	RMCF0402JT10R0	Stackpole Electronics Inc	RES, 10.0, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP21, TP24	10		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP9, TP11, TP12, TP13, TP14, TP15, TP22	7		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP10, TP16, TP17, TP18, TP19, TP20, TP23	7		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		LM61460AANQRJRRQ1	Texas Instruments	Automotive 6-A Low Noise Synchronous Buck Regulators, RJR0014A (VQFN-HR-14)	RJR0014A
U2	1		LP87702DRHBRQ1	Texas Instruments	Boost and Dual Buck Regulators With Diagnostic Functions, RHB0032N (VQFN-32)	RHB0032N
U3	1		TPS74501PQWDRBRQ1	Texas Instruments	500-mA LDO With Power-Good in Small Wettable Flank WSON Package, DRB0008J (VSON-8)	DRB0008J
U4	1		TPS7A6633QDGNRQ1	Texas Instruments	High-Voltage Ultralow-I(q) Low-Dropout Regulator, DGN0008D (HVSSOP-8)	DGN0008D
U5	1		TPS3840DL30DBVR	Texas Instruments	Nano Power, Wide VIN Voltage Detector with Programmable Delay, DBV0005A (SOT-23-5)	DBV0005A
C41	0	10uF	50SVPF10M	Panasonic	CAP, Aluminum Polymer, 10 uF, 50 V, +/- 20%, 0.04 ohm, F61 SMD	F61
R19	0	10.0k	RMCF0402FT10K0	Stackpole Electronics Inc	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R28, R32	0	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805

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